



- INDICATES PROPOSED STORMWATER DRAIN RUN
- INDICATES PROPOSED FOULWATER DRAIN RUN
- INDICATES PROPOSED ACO ROAD DRAIN
- GR INDICATES ROAD GULLEY
- INDICATES STORMWATER ACCESS CHAMBER
- INDICATES FOULWATER ACCESS CHAMBER

SAFETY, HEALTH AND ENVIRONMENTAL (SHE) INFORMATION

In addition to hazard/risk normally associated with the types of work detailed on this drawing, note the following:

Construction:-

- Adequate shoring of trenches.
- Open trenches to be fenced off.
- Check weights of pre fabricated elements in respect to man handling.
- Hand protection against wet concrete and mortar.
- Adequate site survey to established position of existing live services on & around the site.
- High standard of personal hygiene when working live sewers.

Maintenance/Cleaning:-

- All sewers to be jetted clean on completion of the works.
- Sewers may need periodic jetting to remove silt.

Decommissioning/Demolition:-

- Connection to live sewer to be adequately bunged.
- Precast concrete units to be lifted out of the ground.
- Concrete possibly could be crushed for re-use as bulk fill.

DRAINAGE NOTES

- ALL DRAINAGE MATERIALS & SPECIFICATIONS TO BE IN ACCORDANCE WITH SEWERAGE SECTOR GUIDANCE: APPENDIX C 'DESIGN AND CONSTRUCTION GUIDANCE'.
- REFER TO LDC LTD DRG'S LDC24-077-08, LDC24-077-09 & LDC24-077-10 FOR ALL STANDARD DRAINAGE DETAILS.
- THE LOCATION, SIZE AND DEPTH OF ALL EXISTING DRAINS/SEWERS AND SERVICES SHALL BE ESTABLISHED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS ON SITE. ANY DISCREPANCIES FROM THE INFORMATION INDICATED ON THESE DRAWINGS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE LDC LTD.
- ALL PIPES SHALL BE LAID WITH SOFFITS LEVEL AND ALL MANHOLES/INSPECTION CHAMBER INVERT LEVELS SHOWN ARE FOR THE OUT GOING PIPE. UNLESS OTHERWISE INDICATED ON THE DRAWING.
- ALL VITRIFIED CLAY PIPES AND FITTINGS TO BE IN ACCORDANCE WITH BS, EN295 & BS 65.
- ALL CIRCULAR CONCRETE PIPES IN TRENCHES AND FITTINGS TO BE IN ACCORDANCE WITH BS EN1916 & BS 5911 AND BE STRENGTH CLASS 120.
- ALL STRUCTURED WALL PLASTIC PIPES AND FITTINGS TO BE IN ACCORDANCE WITH WIS 4-35-01. MAXIMUM LENGTH OF PIPE FOR LAYING IS 3m.
- PIPES AND FITTINGS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- ALL CONNECTIONS TO ROAD GULLIES & DRAINAGE CHANNELS ARE TO BE 150mm DIAMETER UNLESS NOTED OTHERWISE.
- ALL CONNECTIONS FROM DRAINAGE CHANNELS TO BE TRAPPED AND ROADABLE.
- COVER LEVELS INDICATED IN MANHOLE SCHEDULES ARE APPROXIMATE AND SHOULD BE CHECKED AGAINST ARCHITECT'S DETAILED LEVELS DRAWINGS.
- WHERE THE COVER TO PIPES IS LESS THAN 1200mm IN TRAFFICKED AREAS & 900mm IN OTHER AREAS, THEN CONCRETE PROTECTION IS TO BE PROVIDED. NB UNTIL FINAL SURFACE IS CONSTRUCTED, HEAVY TRAFFIC IS NOT TO BE ALLOWED OVER PIPE TRENCHES WITHOUT SPECIFIC PROTECTION MEASURES IN PLACE.
- SOFT SPOTS IN THE BOTTOM OF TRENCHES SHALL BE REMOVED AND BACKFILLED WITH TYPE 1 SUB-MATERIAL, PIPE BEDDING MATERIAL OR LEAN MIX CONCRETE.
- ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH BS8500-1-2023
- RELEVANT CONCRETE MIX DESIGN:-

CONCRETE ELEMENT	DESIGN CHEMICAL CLASS
PIPE SURROUND	DC2 ACEC CLASS AC-2
MH SURROUND	DC2 ACEC CLASS AC-2
- DRAINAGE CHANNEL SPECIFICATIONS:-

LOCATION	CHANNEL TYPE	LOAD CLASS
YARD	ACO PD200F-20.1	D400
CAR PARK	ACO PD200F-20.1	D400
ACCESS ROAD	ACO PD200F-20.1	D400
- IF A SIPHONIC ROOF DRAINAGE SYSTEM IS PROPOSED THE SIPHONIC PIPEWORK IS TO BE CONTINUED BELOW GROUND TO THE FIRST EXTERNAL MANHOLE, WHICH IS TO BE VENTED TO BREAK THE SIPHONIC ACTION.
- ALL ACCESS CHAMBER COVERS AND FRAMES IN TRAFFICKED AREAS INCLUDING FOOTWAYS TO BE D400 RATED. ALL ACCESS CHAMBER COVERS AND FRAMES IN NON-TRAFFICKED AREAS ARE TO BE B125 RATED
- ALL DRAINAGE COVERS IN PEDESTRIAN AREAS ARE TO BE FITTED WITH HEEL SAFE LIDS.
- ALL PETROL INTERCEPTORS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND FITTED WITH ALARMS AND VENTS TO LOCATIONS AS AGREED WITH THE CLIENT.
- IF A PILED OR SUSPENDED SLAB IS PROPOSED ALL INTERNAL DRAINAGE IS TO BE SUSPENDED FROM THE SLAB WITH ROCKER PIPES USED AT THE EDGES OF THE BUILDING.
- ALL DOMESTIC FOUL DRAINAGE MUST BE KEPT SEPARATE FROM CONDENSATE DRAINAGE UNTIL OUTSIDE THE BUILDING WITH STEPS TAKEN TO TRAP ANY ODOURS.
- ALL FOUL RUNS MUST BE VENTED IN ACCORDANCE WITH BUILDING REGULATIONS. VENT LOCATIONS ARE NOTED ON DRAWING LDC24-077-08
- REGARDLESS OF MANHOLE POSITIONS SHOWN ON THIS DRAWING, THE ACCESS LIDS ARE TO BE POSITIONED AWAY FROM MAIN WHEEL LINES AND BE SQUARE TO KERBS AND OTHER SURFACE FEATURES SUCH AS YARD SLAB JOINTS.
- ALL TEMPORARY DRAINAGE IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE LAND DRAINAGE AS NECESSARY TO PREVENT RUNOFF FROM LANDSCAPED AREAS WASHING SILT ONTO HARDSTANDINGS AND THIRD PARTY LAND.
- THE CONTRACTOR IS RESPONSIBLE FOR SEWER CONNECTION APPROVALS UNLESS NOTED OTHERWISE.
- ALL MANHOLE LIDS TO BE PAINTED BLACK IMMEDIATELY PRIOR TO PRACTICAL COMPLETION.
- JUST PRIOR TO PRACTICAL COMPLETION OF THE PROJECT THE CONTRACTOR SHALL CLEAN ALL DRAIN RUNS BY JETTING AND REMOVING ALL DEBRIS FROM SITE. NO DEBRIS SHALL BE PERMITTED TO ENTER THE PUBLIC SEWER AND/OR WATERCOURSE SYSTEM. ONCE THE DRAINAGE SYSTEM HAS BEEN FULLY CLEANED OUT A CCTV SURVEY OF THE COMPLETE PIPE NETWORK (INCLUDING ATTENUATION TANKS AND CARRIER CHANNELS) SHALL BE CARRIED OUT, WITH A COPY BEING SENT TO THE ENGINEER. VISUAL INSPECTIONS (THROUGH CCTV SURVEY) SHALL BE CARRIED OUT BY A QUALIFIED AND APPROVED CONTRACTOR, AND IN ACCORDANCE WITH THE 'WSA/FRA MODEL CONTRACT DOCUMENT FOR SEWER CONDITION INSPECTIONS'. THE AS BUILT INVERT AND COVER LEVELS SHALL BE RECORDED BY THE CONTRACTOR AND PASSED TO THE ENGINEER FOR REVIEW.
- ALL SEWERS AND DRAINS ARE TO BE TESTED IN ACCORDANCE WITH SEWERAGE SECTOR GUIDANCE APPENDIX C, SECTION E7.

Rev	Description			
	Designed	Checked	Approved	Date
Status				

Longsight  
Design  
Consultancy

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Title	
Foul and Stormwater Drainage Layout Plan and Details	

Scale @ A1	1:250	Drawn by	AR
Drawing Number	LDC24-077-08	Revision	-

BUILDINGS SAFETY ACT 2022

FOR THE PURPOSES OF THE BUILDINGS SAFETY ACT 2022 LONGSIGHT DESIGN CONSULTANCY WILL ACT AS DESIGNER DURING DESIGN PHASE OF THE PROJECT. THESE OBLIGATIONS WILL TRANSFER TO EITHER THE CLIENT OR PRINCIPAL CONTRACTOR AT COMMENCEMENT OF THE CONSTRUCTION PHASE. THE CLIENT OR THE CONTRACTOR SHALL ENSURE THAT THE WORKS ARE CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.